**Supplementary Table 4**

Feature class combination and regularization multiplier included in the MaxEnt model of four holoparasitic plants and their primary hosts.

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Species** | **Feature class combination** | **Regularization multiplier** |
| 1 | P: *Cynomorium songaricum* | LQHP | 0.5 |
| H: *Nitraria sibirica* | LQH | 1.0 |
| 2 | P: *Boschniakia rossica* | LQH | 2.5 |
| H: *Alnus mandshurica* | LQH | 0.5 |
| 3 | P: *Cistanche deserticola* | LQH | 1.0 |
| H: *Haloxylon ammodendron* | LQHP | 1.5 |
| 4 | P: *Cistanche mongolica* | LQH | 1.0 |
| H: *Tamarix ramosissima* | LQHP | 2.0 |

\* P: parasite; H: host.